Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	NOV 21	CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present
NEWS 3	NOV 26	MARPAT enhanced with FSORT command
NEWS 4	NOV 26	CHEMSAFE now available on STN Easy
NEWS 5	NOV 26	Two new SET commands increase convenience of STN searching
NEWS 6	DEC 01	ChemPort single article sales feature unavailable
NEWS 7	DEC 12	GBFULL now offers single source for full-text coverage of complete UK patent families
NEWS 8	DEC 17	Fifty-one pharmaceutical ingredients added to PS
NEWS 9	JAN 06	The retention policy for unread STNmail messages will change in 2009 for STN-Columbus and STN-Tokyo
NEWS 10	JAN 07	WPIDS, WPINDEX, and WPIX enhanced Japanese Patent Classification Data
NEWS 11	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS 12	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS 13	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS 14	FEB 10	COMPENDEX reloaded and enhanced
NEWS 15	FEB 11	WTEXTILES reloaded and enhanced
NEWS 16	FEB 19	New patent-examiner citations in 300,000 CA/CAplus patent records provide insights into related prior art
NEWS 17	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS 18	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS 19	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS 20	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS 21	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS 22	FEB 25	USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS 23	MAR 06	INPADOCDB and INPAFAMDB enhanced with new display formats
NEWS 24	MAR 11	EPFULL backfile enhanced with additional full-text applications and grants
NEWS 25	MAR 11	ESBIOBASE reloaded and enhanced

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

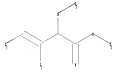
```
 NEWS HOURS     STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN     Welcome Banner and News Items
 NEWS IPC8      For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN Customer
  agreement.  Please note that this agreement limits use to scientific
  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 05:58:12 ON 17 MAR 2009

=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                          0.22       0.22

FILE 'REGISTRY' ENTERED AT 05:58:40 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   15 MAR 2009  HIGHEST RN 1121544-94-2
DICTIONARY FILE UPDATES:  15 MAR 2009  HIGHEST RN 1121544-94-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> logoff hold
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                          0.48       0.70

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 05:59:02 ON 17 MAR 2009

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x
```

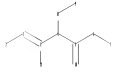
LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 06:07:51 ON 17 MAR 2009
FILE 'REGISTRY' ENTERED AT 06:07:51 ON 17 MAR 2009
COPYRIGHT (C) 2009 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.48	0.70

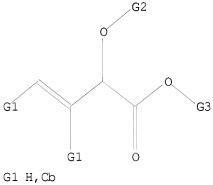
=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10566995\10566995 genus clm 1.str





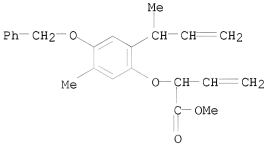
chain nodes :
1 2 3 4 5 6 7 8 9 10 11
chain bonds :
1-2 2-3 3-4 3-11 4-5 4-8 5-6 5-10 6-7 8-9
exact/norm bonds :

```
1-2  3-11  4-8  5-6  5-10  6-7  8-9
exact bonds :
2-3  3-4  4-5


G1:H,Cb

G2:Cb,Cy,Hy

G3:H,Ak

Hydrogen count :
2:>= minimum 1
Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  8:CLASS  9:CLASS
10:CLASS  11:CLASS



L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1                STR
```

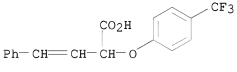



```
G1 H,Cb
G2 Cb,Cy,Hy
G3 H,Ak


Structure attributes must be viewed using STN Express query preparation.


=> search l1 sss sam
SAMPLE SEARCH INITIATED 06:09:29 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     8652 TO ITERATE

 23.1% PROCESSED     2000 ITERATIONS                                 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE   **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:       167464 TO   178616
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1
```

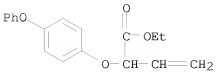
```
=> search l1 sss full
FULL SEARCH INITIATED 06:10:03 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   173200 TO ITERATE

100.0% PROCESSED   173200 ITERATIONS                              29 ANSWERS
SEARCH TIME: 00.00.03

L3           29 SEA SSS FUL L1

=> d scan

L3   29 ANSWERS   REGISTRY  COPYRIGHT 2009 ACS on STN
IN   3-Butenoic acid, 2-[5-methyl-2-(1-methyl-2-propen-1-yl)-4-
     (phenylmethoxy)phenoxy]-, methyl ester
MF   C23 H26 O4
```




```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):29

L3   29 ANSWERS   REGISTRY  COPYRIGHT 2009 ACS on STN
IN   3-Butenoic acid, 4-phenyl-2-[4-(trifluoromethyl)phenoxy]-
MF   C17 H13 F3 O3
```

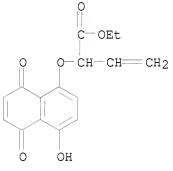



```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


L3   29 ANSWERS   REGISTRY  COPYRIGHT 2009 ACS on STN
IN   3-Butenoic acid, 2-(4-phenoxyphenoxy)-, ethyl ester
MF   C18 H18 O4
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

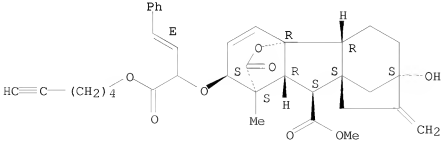
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[(5,8-dihydro-4-hydroxy-5,8-dioxo-1-naphthalenyl)oxy]-, ethyl ester
MF C16 H14 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

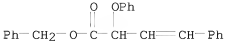
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Gibb-3-ene-1,10-dicarboxylic acid, 2-[[(2E)-1-[(5-hexyn-1-yloxy)carbonyl]-3-phenyl-2-propen-1-yl]oxy]-4a,7-dihydroxy-1-methyl-8-methylene-, 1,4a-lactone, 10-methyl ester, (1α,2β,4aα,4bβ,10β)-
MF C36 H40 O8

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

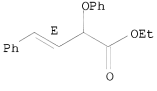
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-phenoxy-4-phenyl-, phenylmethyl ester
MF C23 H20 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

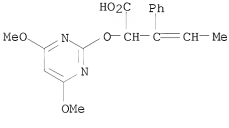
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-phenoxy-4-phenyl-, ethyl ester, (E)- (9CI)
MF C18 H18 O3

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzenepropanoic acid, α-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-β-ethylidene-
MF C17 H18 N2 O5



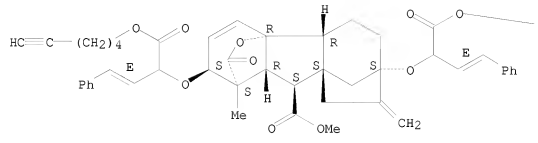
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Gibb-3-ene-1,10-dicarboxylic acid, 2,7-bis[[(2E)-1-[(5-hexyn-1-yloxy)carbonyl]-3-phenyl-2-propen-1-yl]oxy]-4a-hydroxy-1-methyl-8-methylene-, 1,4a-lactone, 10-methyl ester,

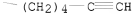
(1α,2β,4aα,4bβ,10β)-
MF C52 H56 O10

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A

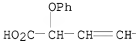


PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

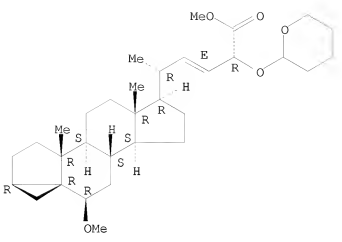
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-phenoxy-4-phenyl-
MF C16 H14 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

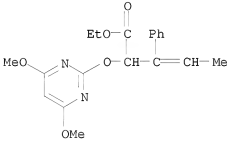
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3,5-Cyclochol-22-ene-24-carboxylic acid,
6-methoxy-24-[(tetrahydro-2H-pyran-2-yl)oxy]-, methyl ester,
(3α,5R,6β,22E,24R)- (9CI)
MF C32 H50 O5

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

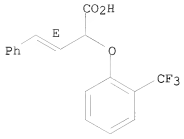
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzenepropanoic acid, α-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-β-ethylidene-, ethyl ester
MF C19 H22 N2 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

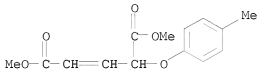
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-phenyl-2-[2-(trifluoromethyl)phenoxy]-, (3E)-
MF C17 H13 F3 O3

Double bond geometry as shown.



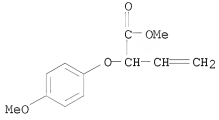
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C14 H16 O5



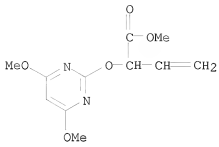
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-(4-methoxyphenoxy)-, methyl ester
MF C12 H14 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

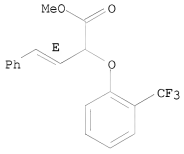
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-, methyl ester
MF C11 H14 N2 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-phenyl-2-[2-(trifluoromethyl)phenoxy]-, methyl ester, (3E)-
MF C18 H15 F3 O3

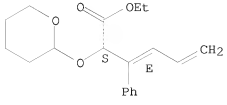
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

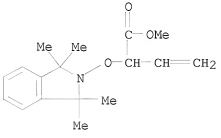
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzenepropanoic acid, β-2-propen-1-ylidene-α-[(tetrahydro-2H-pyran-2-yl)oxy]-, ethyl ester, (αS,βE)-
MF C19 H24 O4

Absolute stereochemistry.
Double bond geometry as shown.



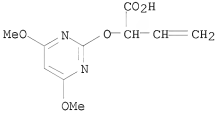
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[(1,3-dihydro-1,1,3,3-tetramethyl-2H-isoindol-2-yl)oxy]-, methyl ester
MF C17 H23 N O3



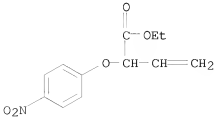
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-
MF C10 H12 N2 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

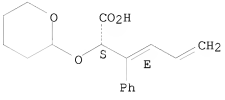
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-(4-nitrophenoxy)-, ethyl ester
MF C12 H13 N O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

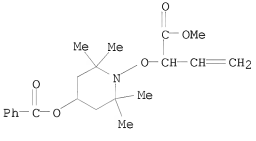
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzenepropanoic acid, β-2-propen-1-ylidene-α-[(tetrahydro-2H-pyran-2-yl)oxy]-, (αS,βE)-
MF C17 H20 O4

Absolute stereochemistry.
Double bond geometry as shown.



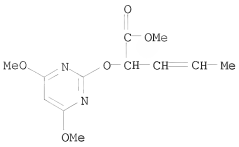
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[[4-(benzoyloxy)-2,2,6,6-tetramethyl-1-piperidinyl]oxy]-, methyl ester
MF C21 H29 N O5



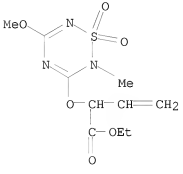
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Pentenoic acid, 2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-, methyl ester
MF C12 H16 N2 O5



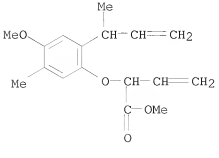
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[(5-methoxy-2-methyl-1,1-dioxido-2H-1,2,4,6-thiatriazin-3-yl)oxy]-, ethyl ester
MF C10 H15 N3 O6 S



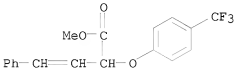
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[4-methoxy-5-methyl-2-(1-methyl-2-propen-1-yl)phenoxy]-, methyl ester
MF C17 H22 O4



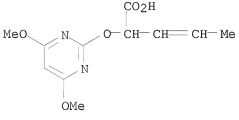
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-phenyl-2-[4-(trifluoromethyl)phenoxy]-, methyl ester
MF C18 H15 F3 O3



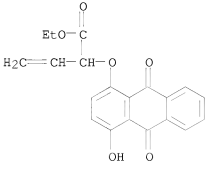
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Pentenoic acid, 2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-
MF C11 H14 N2 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[(9,10-dihydro-4-hydroxy-9,10-dioxo-1-anthracenyl)oxy]-
    , ethyl ester
MF C20 H16 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION
FULL ESTIMATED COST | 189.24 | 189.46

FILE 'CAPLUS' ENTERED AT 06:12:13 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 17 Mar 2009 VOL 150 ISS 12
FILE LAST UPDATED: 16 Mar 2009 (20090316/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l3
L4 14 L3

=> d l4 1-14 ti

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Simultaneous Arming and Structure/Activity Studies of Natural Products Employing O-H Insertions: An Expedient and Versatile Strategy for Natural Products-Based Chemical Genetics

L4 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Total synthesis of heliannuol B, an allelochemical from Helianthus annuus

L4 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Enantioselective Reductive Coupling of 1,3-Enynes to Glyoxalates Mediated by Hydrogen: Asymmetric Synthesis of β,γ-Unsaturated α-Hydroxy Esters

L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of 4-phenyl-but-3-enoic acid derivatives, as peroxisome proliferator-activated receptors (PPAR) ligands, in particular PPARα

and PPARγ agonists, for the treatment and prevention of diabetes, dyslipidemia, atherosclerosis

L4 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Enantioselective Synthesis of a Novel Trans Double Bond Ceramide Analog via Catalytic Asymmetric Dihydroxylation of an Enyne. The Role of the Trans Double Bond of Ceramide in the Fusion of Semliki Forest Virus with Target Membranes

L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of (24R)- or (24S)-24,25-dihydroxycholesterol and its intermediates

L4 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI A Stereospecific Access to Allylic Systems Using Rhodium(II)-Vinyl Carbenoid Insertion into Si-H, O-H, and N-H Bonds

L4 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of 2-(2-chloro-2-fluorocyclopropyl)acetates and -acetamides as pesticides

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of 2-aryl-2-(2-pyrimidinyloxy)acetates and analogs as agrochemicals

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Azinylalkanoates as herbicides

L4 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Successive Michael reaction-sigmatropic rearrangement of polyquinones with silyl ketene acetals

L4 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI A new approach to linear tetracycles via Michael reactions to quinizarinquinone with O-silylated ketene acetals

L4 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI 1,2,4,6-Thiatriazine-1,1-dioxides and their use for controlling unwanted plant growth

=> file reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	9.32	198.78

FILE 'REGISTRY' ENTERED AT 06:16:47 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2
DICTIONARY FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

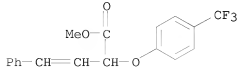
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

```
=> e 3-Butenoic acid, 4-phenyl-2-(4-(trifluoromethyl)phenoxy)-, methyl ester/cn
E1            1     3-BUTENOIC ACID, 4-PHENYL-2-(2-THIENYLMETHYLENE)-, INNER SAL
                    T/CN
E2            1     3-BUTENOIC ACID, 4-PHENYL-2-(4-(TRIFLUOROMETHYL)PHENOXY)-/CN
E3            1 --> 3-BUTENOIC ACID, 4-PHENYL-2-(4-(TRIFLUOROMETHYL)PHENOXY)-, M
                    ETHYL ESTER/CN
E4            1     3-BUTENOIC ACID, 4-PHENYL-2-(4-QUINAZOLINYLHYDRAZONO)-/CN
E5            1     3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLAMINO)-, ETHYL ESTER, (E)
                    -/CN
E6            1     3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLAMINO)-, METHYL ESTER, (3
                    E)-/CN
E7            1     3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLIMINO)-/CN
E8            1     3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLMETHOXY)-, (3R)-TETRAHYDR
                    O-4,4-DIMETHYL-2-OXO-3-FURANYL ESTER, (2S,3E)-/CN
E9            1     3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLMETHOXY)-, METHYL ESTER/C
                    N
E10           1     3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLMETHOXY)-, METHYL ESTER,
                    (3E)-/CN
E11           1     3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLMETHYLENE)-/CN
E12           1     3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLMETHYLENE)-, BUTYL ESTER,
                     (2E,3E)-/CN

=> e3
L5            1 "3-BUTENOIC ACID, 4-PHENYL-2-(4-(TRIFLUOROMETHYL)PHENOXY)-, METH
                YL ESTER"/CN

=> d 15

L5   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2009 ACS on STN
RN   841202-08-2  REGISTRY
ED   Entered STN:  03 Mar 2005
CN   3-Butenoic acid, 4-phenyl-2-[4-(trifluoromethyl)phenoxy]-, methyl
     ester  (CA INDEX NAME)
OTHER NAMES:
CN   Methyl 4-phenyl-2-[(4-trifluoromethylphenyl)oxy]but-3-enoate
MF   C18 H15 F3 O3
SR   CA
LC   STN Files:   CA, CAPLUS, CASREACT, USPATFULL
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.36	207.14

FILE 'CAPLUS' ENTERED AT 06:17:56 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 17 Mar 2009 VOL 150 ISS 12
FILE LAST UPDATED: 16 Mar 2009 (20090316/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 15
L6 1 L5

=> d l6 ti fbib abs

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of 4-phenyl-but-3-enoic acid derivatives, as peroxisome proliferator-activated receptors (PPAR) ligands, in particular PPARα and PPARγ agonists, for the treatment and prevention of diabetes, dyslipidemia, atherosclerosis
AN 2005:119915 CAPLUS
DN 142:219047
TI Preparation of 4-phenyl-but-3-enoic acid derivatives, as peroxisome proliferator-activated receptors (PPAR) ligands, in particular PPARα and PPARγ agonists, for the treatment and prevention of diabetes, dyslipidemia, atherosclerosis
IN Zeiller, Jean Jacques; Dumas, Herve; Guyard Dangremont, Valerie; Berard, Isabelle; Contard, Francis; Guerrier, Daniel; Ferrand, Gerard; Bonhomme, Yves
PA Merck Sante, Fr.
SO Fr. Demande, 38 pp.
CODEN: FRXXBL
DT Patent

LA French
FAN.CNT 1

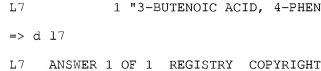
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2858615	A1	20050211	FR 2003-9610	20030804
	FR 2858615	B1	20061222		
	AU 2004263254	A1	20050217	AU 2004-263254	20040714
				FR 2003-9610 A	20030804
				WO 2004-EP7776 W	20040714
	CA 2534493	A1	20050217	CA 2004-2534493	20040714
				FR 2003-9610 A	20030804
				WO 2004-EP7776 W	20040714
	WO 2005014521	A1	20050217	WO 2004-EP7776	20040714
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
				FR 2003-9610 A	20030804
	EP 1658260	A1	20060524	EP 2004-740992	20040714
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
				FR 2003-9610 A	20030804
				WO 2004-EP7776 W	20040714
	JP 2007501190	T	20070125	JP 2006-522255	20040714
				FR 2003-9610 A	20030804
				WO 2004-EP7776 W	20040714
	US 20060178434	A1	20060810	US 2006-566995	20060202
				FR 2003-9610 A	20030804
				WO 2004-EP7776 W	20040714

OS CASREACT 142:219047; MARPAT 142:219047
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [wherein R1 = alkyl, (un)substituted heterocyclyl, (un)substituted aryl or/and (un)condensed with a (un)saturated monocyclic or polycyclic; R2, R3 = independently H, (un)substituted aryl; or R2R3 = alkylene; R = H, aryl/alkyl; their acid and base addition salts; with proviso; their derivs., solvates, and stereoisomers and their mixts., and their pharmaceutically acceptable salts] were prepared as peroxisome proliferator-activated receptors (PPAR)-α and PPARγ agonists for treating diabetes, dyslipidemia, atherosclerosis (no data). For example, II was prepared, in 4 steps, reacting 2-oxo-4-phenylbut-3-enoic acid sodium salt with methanol, followed by reduction, alkylation of the alc. with MeI, and saponification III at a concentration of 50 μM was a PPARα and PPARγ agonist, showing induced luciferase activity via PPARα/Gal4 and PPARγ/Gal4 with a factor of induction of 2.3 and 6.4, resp. Thus, I and their compns. are useful for treating and preventing dyslipidemia, atherosclerosis and diabetes (no data).
RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        12.50     219.64

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                        -0.82      -0.82

FILE 'REGISTRY' ENTERED AT 06:29:29 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   15 MAR 2009  HIGHEST RN 1121544-94-2
DICTIONARY FILE UPDATES:  15 MAR 2009  HIGHEST RN 1121544-94-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> e9
L7            1 "3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLMETHOXY)-, METHYL ESTER"/CN

=> d l7

L7   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2009 ACS on STN
RN   835914-70-0  REGISTRY
ED   Entered STN:  23 Feb 2005
CN   3-Butenoic acid, 4-phenyl-2-(phenylmethoxy)-, methyl ester  (CA
     INDEX NAME)
MF   C18 H18 O3
SR   CA
LC   STN Files:   CA, CAPLUS, CASREACT, TOXCENTER
```



```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
```

```
=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     7.88     227.52

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -0.82

FILE 'CAPLUS' ENTERED AT 06:30:11 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)
```



```
FILE COVERS 1907 - 17 Mar 2009  VOL 150 ISS 12
FILE LAST UPDATED: 16 Mar 2009  (20090316/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d l7 ti fbib abs
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:n


=> l7
L8            1 L7

=> d l8 ti fbib abs

L8   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Three-Component Reaction of Aryl Diazoacetates, Alcohols, and Aldehydes
     (or Imines): Evidence of Alcoholic Oxonium Ylide Intermediates
AN   2004:1068128  CAPLUS
DN   142:197447
TI   Three-Component Reaction of Aryl Diazoacetates, Alcohols, and Aldehydes
     (or Imines): Evidence of Alcoholic Oxonium Ylide Intermediates
AU   Lu, Chong-Dao; Liu, Hui; Chen, Zhi-Yong; Hu, Wen-Hao; Mi, Ai-Qiao
CS   Key Laboratory for Asymmetric Synthesis and Chirotechnology of Sichuan
     Province, Chengdu Institute of Organic Chemistry, Chinese Academy of
     Sciences, Chengdu, 610041, Peop. Rep. China
SO   Organic Letters (2005), 7(1), 83-86
     CODEN: ORLEF7; ISSN: 1523-7060
PB   American Chemical Society
DT   Journal
```

LA English
OS CASREACT 142:197447
AB The Rh(II)-catalyzed three-component reaction of aryl diazoacetates, alcs. and aldehydes was explored, which provided evidence of alc. oxonium ylide formation for O-H insertion. A new C-C bond formation reaction where alc. oxonium ylides were trapped by electron-deficient aryl aldehydes (or imines) was realized.
RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.00	235.52
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.82	-1.64

FILE 'REGISTRY' ENTERED AT 06:36:03 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2
DICTIONARY FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

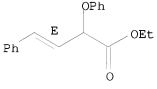
http://www.cas.org/support/stngen/stndoc/properties.html

=> e 3-Butenoic acid, 2-phenoxy-4-phenyl-, ethyl ester/cn

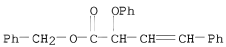
E1	1	3-BUTENOIC ACID, 2-PHENOXY-4-PHENYL-/CN
E2	1	3-BUTENOIC ACID, 2-PHENOXY-4-PHENYL-, (3R)-TETRAHYDRO-4,4-DI METHYL-2-OXO-3-FURANYL ESTER, (2S,3E)-/CN
E3	0 -->	3-BUTENOIC ACID, 2-PHENOXY-4-PHENYL-, ETHYL ESTER/CN
E4	1	3-BUTENOIC ACID, 2-PHENOXY-4-PHENYL-, ETHYL ESTER, (E)-/CN
E5	1	3-BUTENOIC ACID, 2-PHENOXY-4-PHENYL-, PHENYLMETHYL ESTER/CN
E6	1	3-BUTENOIC ACID, 2-PHENYL-/CN
E7	1	3-BUTENOIC ACID, 2-PHENYL-, METHYL ESTER/CN
E8	1	3-BUTENOIC ACID, 2-PHENYL-, SODIUM SALT/CN
E9	1	3-BUTENOIC ACID, 2-PHENYLETHENYL ESTER, (Z)-/CN
E10	1	3-BUTENOIC ACID, 2-PHENYLHYDRAZIDE/CN
E11	1	3-BUTENOIC ACID, 2-PHOSPHORANYLIDENE-/CN
E12	1	3-BUTENOIC ACID, 2-PIPERIDINO-/CN

=> e4
L9 1 "3-BUTENOIC ACID, 2-PHENOXY-4-PHENYL-, ETHYL ESTER, (E)-"/CN

```
=> d l9

L9   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2009 ACS on STN
RN   173602-54-5  REGISTRY
ED   Entered STN:  28 Feb 1996
CN   3-Butenoic acid, 2-phenoxy-4-phenyl-, ethyl ester, (E)- (9CI)
     (CA INDEX NAME)
FS   STEREOSEARCH
MF   C18 H18 O3
SR   CA
LC   STN Files:   CA, CAPLUS, CASREACT

Double bond geometry as shown.
```




```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> e5
L10          1 "3-BUTENOIC ACID, 2-PHENOXY-4-PHENYL-, PHENYLMETHYL ESTER"/CN

=> d l10

L10  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2009 ACS on STN
RN   841202-15-1  REGISTRY
ED   Entered STN:  03 Mar 2005
CN   3-Butenoic acid, 2-phenoxy-4-phenyl-, phenylmethyl ester  (CA
     INDEX NAME)
OTHER NAMES:
CN   Benzyl 2-phenoxy-4-phenylbut-3-enoate
MF   C23 H20 O3
SR   CA
LC   STN Files:   CA, CAPLUS, USPATFULL
```




```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
```

FULL ESTIMATED COST 16.24 251.76

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION
CA SUBSCRIBER PRICE 0.00 -1.64

FILE 'CAPLUS' ENTERED AT 06:37:34 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 17 Mar 2009 VOL 150 ISS 12
FILE LAST UPDATED: 16 Mar 2009 (20090316/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l9
L11 2 L9

=> d l11 1-2 ti fbib abs

L11 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
TI A Stereospecific Access to Allylic Systems Using Rhodium(II)-Vinyl Carbenoid Insertion into Si-H, O-H, and N-H Bonds
AN 1997:198048 CAPLUS
DN 126:211638
OREF 126:40925a,40926a
TI A Stereospecific Access to Allylic Systems Using Rhodium(II)-Vinyl Carbenoid Insertion into Si-H, O-H, and N-H Bonds
AU Bulugahapitiya, Priyadarshanie; Landais, Yannick; Parra-Rapado, Liliana; Planchenault, Denis; Weber, Valery
CS College Propedeutique, Universite de Lausanne, Lausanne-Dorigny, 1015, Switz.
SO Journal of Organic Chemistry (1997), 62(6), 1630-1641
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
AB Rhodium-catalyzed decomposition of α-vinyl diazo esters in the presence of silanes, alcs., ethers, amines, and thiols has been shown to produce the corresponding α-silyl, α-hydroxy, α-alkoxy, α-amino, and α-thioalkoxy esters in generally good yield with a complete retention of the stereochem. of the double bond of the diazo

precursor. An extension of the process in homochiral series has also been devised using either a chiral auxiliary attached to the ester function or achiral α-vinyl diazo esters and Doyle's chiral catalyst Rh2(MEPY)4. In the former approach, pantolactone as chiral auxiliary gave diastereoselectivities of up to 70%, while the second approach produced the desired allylsilane with ee as high as 72%. On the other hand, Rh2(MEPY)4-catalyzed insertion into the O-H bond of water led to poor or no enantioselectivity in good agreement with recent literature reports.

RE.CNT 119 THERE ARE 119 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations
AN 1995:974892 CAPLUS
DN 124:176328
OREF 124:32707a,32710a
TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations
AU Landais, Yannick; Planchenault, Denis
CS Inst. de Chimie Organique, Univ. de Lausanne, Lausanne-Dorigny, 1015, Switz.
SO Synlett (1995), (11), 1191-3
CODEN: SYNLES; ISSN: 0936-5214
PB Thieme
DT Journal
LA English
OS CASREACT 124:176328
GI

I

II

AB Electronically and sterically differentiated allylic substituents such as RO, NHPh, PhS, and PhSO2 groups were used to demonstrate the influence of electronic and/or steric effects in the stereocontrol of the PhSeCl-promoted electrophilic 5-endo-trig-like cyclizations of 2-substituted-3-alkenols, (E)-PhCH:CHCHXCH2OH (1, X = OH, OEt, OCH2CF3, OPh, NHPh, SPh). 1 Reacted with PhSeCl/K2CO3 to give predominantly the 2,4-trans-tetrahydrofuran I, however, the cis-2,4-diastereoisomer II was predominant for X = NHPh and SPh for reasons of electronic effects.

=> l10
L12 1 L10

=> d l12 1 ti fbib abs

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of 4-phenyl-but-3-enoic acid derivatives, as peroxisome proliferator-activated receptors (PPAR) ligands, in particular PPARα and PPARγ agonists, for the treatment and prevention of diabetes, dyslipidemia, atherosclerosis
AN 2005:119915 CAPLUS
DN 142:219047
TI Preparation of 4-phenyl-but-3-enoic acid derivatives, as peroxisome

proliferator-activated receptors (PPAR) ligands, in particular PPARα and PPARγ agonists, for the treatment and prevention of diabetes, dyslipidemia, atherosclerosis

IN Zeiller, Jean Jacques; Dumas, Herve; Guyard Dangremont, Valerie; Berard, Isabelle; Contard, Francis; Guerrier, Daniel; Ferrand, Gerard; Bonhomme, Yves

PA Merck Sante, Fr.

SO Fr. Demande, 38 pp.

CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	FR 2858615	A1	20050211	FR 2003-9610		20030804
	FR 2858615	B1	20061222			
	AU 2004263254	A1	20050217	AU 2004-263254		20040714
				FR 2003-9610	A	20030804
				WO 2004-EP7776	W	20040714
	CA 2534493	A1	20050217	CA 2004-2534493		20040714
				FR 2003-9610	A	20030804
				WO 2004-EP7776	W	20040714
	WO 2005014521	A1	20050217	WO 2004-EP7776		20040714
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
				FR 2003-9610	A	20030804
	EP 1658260	A1	20060524	EP 2004-740992		20040714
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK					
				FR 2003-9610	A	20030804
				WO 2004-EP7776	W	20040714
	JP 2007501190	T	20070125	JP 2006-522255		20040714
				FR 2003-9610	A	20030804
				WO 2004-EP7776	W	20040714
	US 20060178434	A1	20060810	US 2006-566995		20060202
				FR 2003-9610	A	20030804
				WO 2004-EP7776	W	20040714

OS CASREACT 142:219047; MARPAT 142:219047

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [wherein R1 = alkyl, (un)substituted heterocyclyl, (un)substituted aryl or/and (un)condensed with a (un)saturated monocyclic or polycyclic; R2, R3 = independently H, (un)substituted aryl; or R2R3 = alkylene; R = H, aryl/alkyl; their acid and base addition salts; with proviso; their derivs., solvates, and stereoisomers and their mixts., and their pharmaceutically acceptable salts] were prepared as peroxisome proliferator-activated receptors (PPAR)-α and PPARγ agonists for treating diabetes, dyslipidemia, atherosclerosis (no data). For

example, II was prepared, in 4 steps, reacting 2-oxo-4-phenylbut-3-enoic acid sodium salt with methanol, followed by reduction, alkylation of the alc. with MeI, and saponification III at a concentration of 50 μM was a PPARα and PPARγ agonist, showing induced luciferase activity via PPARα/Gal4 and PPARγ/Gal4 with a factor of induction of 2.3 and 6.4, resp. Thus, I and their compns. are useful for treating and preventing dyslipidemia, atherosclerosis and diabetes (no data).
RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>
=> logoff hold
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 24.50 276.26

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION
CA SUBSCRIBER PRICE -2.46 -4.10

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:56:16 ON 17 MAR 2009

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 07:43:11 ON 17 MAR 2009
FILE 'CAPLUS' ENTERED AT 07:43:11 ON 17 MAR 2009
COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 24.50 276.26

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION
CA SUBSCRIBER PRICE -2.46 -4.10

=> file reg
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 24.50 276.26

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION
CA SUBSCRIBER PRICE -2.46 -4.10

FILE 'REGISTRY' ENTERED AT 07:43:24 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file

provided by InfoChem.

STRUCTURE FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2
DICTIONARY FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

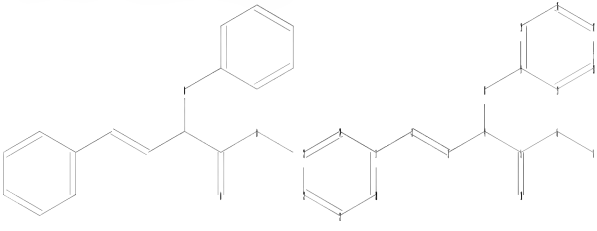
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10566995\10566995 eleted specie.str



chain nodes :
2 3 4 5 6 7 8 10
ring nodes :
1 9 15 16 17 18 19 20 21 22 23 24
chain bonds :
1-2 2-3 3-4 4-5 4-8 5-6 5-10 6-7 8-9
ring bonds :
1-20 1-24 9-15 9-19 15-16 16-17 17-18 18-19 20-21 21-22 22-23 23-24
exact/norm bonds :
4-8 5-6 5-10 6-7 8-9
exact bonds :
1-2 2-3 3-4 4-5
normalized bonds :
1-20 1-24 9-15 9-19 15-16 16-17 17-18 18-19 20-21 21-22 22-23 23-24

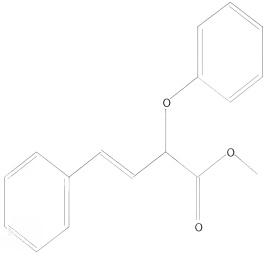
G1:H,Cb

G2:Cb,Cy,Hy

G3:H,Ak

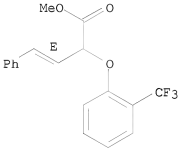
Hydrogen count :

```
2:>= minimum 1  3:>= minimum 1  4:>= minimum 1
Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  8:CLASS  9:Atom
10:CLASS  15:Atom  16:Atom  17:Atom  18:Atom  19:Atom  20:Atom  21:Atom  22:Atom
23:Atom  24:Atom



L13     STRUCTURE UPLOADED

=> d l13
L13 HAS NO ANSWERS
L13             STR
```

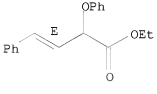



```
G1 H,Cb
G2 Cb,Cy,Hy
G3 H,Ak


Structure attributes must be viewed using STN Express query preparation.


=> search l13 exact full
FULL SEARCH INITIATED 07:44:32 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -        0 TO ITERATE

100.0% PROCESSED        0 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L14           0 SEA EXA FUL L13

=> search l13 sss sam
SAMPLE SEARCH INITIATED 07:44:49 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       61 TO ITERATE

100.0% PROCESSED       61 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE   **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:           752 TO     1688
PROJECTED ANSWERS:                0 TO        0
```

```
L15             0 SEA SSS SAM L13

=> search l13 sss full
FULL SEARCH INITIATED 07:44:59 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      1206 TO ITERATE

100.0% PROCESSED      1206 ITERATIONS                                  4 ANSWERS
SEARCH TIME: 00.00.01

L16             4 SEA SSS FUL L13

=> d scan

L16  4 ANSWERS   REGISTRY  COPYRIGHT 2009 ACS on STN
IN   3-Butenoic acid, 4-phenyl-2-[2-(trifluoromethyl)phenoxy]-, methyl ester,
     (3E)-
MF   C18 H15 F3 O3

Double bond geometry as shown.
```

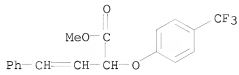



```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

L16  4 ANSWERS   REGISTRY  COPYRIGHT 2009 ACS on STN
IN   3-Butenoic acid, 2-phenoxy-4-phenyl-, ethyl ester, (E)- (9CI)
MF   C18 H18 O3

Double bond geometry as shown.
```



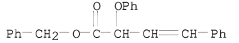

```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


L16  4 ANSWERS   REGISTRY  COPYRIGHT 2009 ACS on STN
IN   3-Butenoic acid, 4-phenyl-2-[4-(trifluoromethyl)phenoxy]-, methyl ester
```

MF C18 H15 F3 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L16 4 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-phenoxy-4-phenyl-, phenylmethyl ester
MF C23 H20 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	249.92	526.18
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.10

FILE 'CAPLUS' ENTERED AT 07:45:53 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 17 Mar 2009 VOL 150 ISS 12
FILE LAST UPDATED: 16 Mar 2009 (20090316/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l16
L17 3 L16

=> d l17 1-3 ti fbib abs

L17 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of 4-phenyl-but-3-enoic acid derivatives, as peroxisome proliferator-activated receptors (PPAR) ligands, in particular PPARα and PPARγ agonists, for the treatment and prevention of diabetes, dyslipidemia, atherosclerosis
AN 2005:119915 CAPLUS
DN 142:219047
TI Preparation of 4-phenyl-but-3-enoic acid derivatives, as peroxisome proliferator-activated receptors (PPAR) ligands, in particular PPARα and PPARγ agonists, for the treatment and prevention of diabetes, dyslipidemia, atherosclerosis
IN Zeiller, Jean Jacques; Dumas, Herve; Guyard Dangremont, Valerie; Berard, Isabelle; Contard, Francis; Guerrier, Daniel; Ferrand, Gerard; Bonhomme, Yves
PA Merck Sante, Fr.
SO Fr. Demande, 38 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	FR 2858615	A1	20050211	FR 2003-9610		20030804
	FR 2858615	B1	20061222			
	AU 2004263254	A1	20050217	AU 2004-263254		20040714
				FR 2003-9610	A	20030804
				WO 2004-EP7776	W	20040714
	CA 2534493	A1	20050217	CA 2004-2534493		20040714
				FR 2003-9610	A	20030804
				WO 2004-EP7776	W	20040714
	WO 2005014521	A1	20050217	WO 2004-EP7776		20040714
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
				FR 2003-9610	A	20030804
	EP 1658260	A1	20060524	EP 2004-740992		20040714
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK					
				FR 2003-9610	A	20030804
				WO 2004-EP7776	W	20040714
	JP 2007501190	T	20070125	JP 2006-522255		20040714
				FR 2003-9610	A	20030804

				WO 2004-EP7776	W	20040714
US 20060178434	A1	20060810		US 2006-566995		20060202
				FR 2003-9610	A	20030804
				WO 2004-EP7776	W	20040714

OS CASREACT 142:219047; MARPAT 142:219047
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [wherein R1 = alkyl, (un)substituted heterocyclyl, (un)substituted aryl or/and (un)condensed with a (un)saturated monocyclic or polycyclic; R2, R3 = independently H, (un)substituted aryl; or R2R3 = alkylene; R = H, aryl/alkyl; their acid and base addition salts; with proviso; their derivs., solvates, and stereoisomers and their mixts., and their pharmaceutically acceptable salts] were prepared as peroxisome proliferator-activated receptors (PPAR)-α and PPARγ agonists for treating diabetes, dyslipidemia, atherosclerosis (no data). For example, II was prepared, in 4 steps, reacting 2-oxo-4-phenylbut-3-enoic acid sodium salt with methanol, followed by reduction, alkylation of the alc. with MeI, and saponification III at a concentration of 50 μM was a PPARα and PPARγ agonist, showing induced luciferase activity via PPARα/Gal4 and PPARγ/Gal4 with a factor of induction of 2.3 and 6.4, resp. Thus, I and their compns. are useful for treating and preventing dyslipidemia, atherosclerosis and diabetes (no data).
RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
TI A Stereospecific Access to Allylic Systems Using Rhodium(II)-Vinyl Carbenoid Insertion into Si-H, O-H, and N-H Bonds
AN 1997:198048 CAPLUS
DN 126:211638
OREF 126:40925a,40926a
TI A Stereospecific Access to Allylic Systems Using Rhodium(II)-Vinyl Carbenoid Insertion into Si-H, O-H, and N-H Bonds
AU Bulugahapitiya, Priyadarshanie; Landais, Yannick; Parra-Rapado, Liliana; Planchenault, Denis; Weber, Valery
CS College Propedeutique, Universite de Lausanne, Lausanne-Dorigny, 1015, Switz.
SO Journal of Organic Chemistry (1997), 62(6), 1630-1641
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
AB Rhodium-catalyzed decomposition of α-vinyl diazo esters in the presence of silanes, alcs., ethers, amines, and thiols has been shown to produce the corresponding α-silyl, α-hydroxy, α-alkoxy, α-amino, and α-thioalkoxy esters in generally good yield with a complete retention of the stereochem. of the double bond of the diazo precursor. An extension of the process in homochiral series has also been devised using either a chiral auxiliary attached to the ester function or achiral α-vinyl diazo esters and Doyle's chiral catalyst Rh2(MEPY)4. In the former approach, pantolactone as chiral auxiliary gave diastereoselectivities of up to 70%, while the second approach produced the desired allylsilane with ee as high as 72%. On the other hand, Rh2(MEPY)4-catalyzed insertion into the O-H bond of water led to poor or no enantioselectivity in good agreement with recent literature reports.
RE.CNT 119 THERE ARE 119 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations
AN 1995:974892 CAPLUS
DN 124:176328
OREF 124:32707a,32710a
TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations
AU Landais, Yannick; Planchenault, Denis
CS Inst. de Chimie Organique, Univ. de Lausanne, Lausanne-Dorigny, 1015, Switz.
SO Synlett (1995), (11), 1191-3
CODEN: SYNLES; ISSN: 0936-5214
PB Thieme
DT Journal
LA English
OS CASREACT 124:176328
GI

I

II

AB Electronically and sterically differentiated allylic substituents such as RO, NHPh, PhS, and PhSO2 groups were used to demonstrate the influence of electronic and/or steric effects in the stereocontrol of the PhSeCl-promoted electrophilic 5-endo-trig-like cyclizations of 2-substituted-3-alkenols, (E)-PhCH:CHCHXCH2OH (1, X = OH, OEt, OCH2CF3, OPh, NHPh, SPh). 1 Reacted with PhSeCl/K2CO3 to give predominantly the 2,4-trans-tetrahydrofuran I, however, the cis-2,4-diastereoisomer II was predominant for X = NHPh and SPh for reasons of electronic effects.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.00	536.18
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.46	-6.56

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:47:00 ON 17 MAR 2009

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *

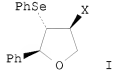
```
SESSION RESUMED IN FILE 'CAPLUS' AT 09:07:45 ON 17 MAR 2009
FILE 'CAPLUS' ENTERED AT 09:07:45 ON 17 MAR 2009
COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    10.00     536.18

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)       SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -2.46      -6.56

=> d his

     (FILE 'HOME' ENTERED AT 05:58:12 ON 17 MAR 2009)

     FILE 'REGISTRY' ENTERED AT 05:58:40 ON 17 MAR 2009
L1             STRUCTURE UPLOADED
L2           0 SEARCH L1 SSS SAM
L3          29 SEARCH L1 SSS FULL

     FILE 'CAPLUS' ENTERED AT 06:12:13 ON 17 MAR 2009
L4          14 L3

     FILE 'REGISTRY' ENTERED AT 06:16:47 ON 17 MAR 2009
                E 3-BUTENOIC ACID, 4-PHENYL-2-(4-(TRIFLUOROMETHYL)PHENOXY)-, ME
L5           1 E3

     FILE 'CAPLUS' ENTERED AT 06:17:56 ON 17 MAR 2009
L6           1 L5

     FILE 'REGISTRY' ENTERED AT 06:29:29 ON 17 MAR 2009
L7           1 E9

     FILE 'CAPLUS' ENTERED AT 06:30:11 ON 17 MAR 2009
L8           1 L7

     FILE 'REGISTRY' ENTERED AT 06:36:03 ON 17 MAR 2009
                E 3-BUTENOIC ACID, 2-PHENOXY-4-PHENYL-, ETHYL ESTER/CN
L9           1 E4
L10          1 E5

     FILE 'CAPLUS' ENTERED AT 06:37:34 ON 17 MAR 2009
L11          2 L9
L12          1 L10

     FILE 'REGISTRY' ENTERED AT 07:43:24 ON 17 MAR 2009
L13            STRUCTURE UPLOADED
L14          0 SEARCH L13 EXACT FULL
L15          0 SEARCH L13 SSS SAM
L16          4 SEARCH L13 SSS FULL

     FILE 'CAPLUS' ENTERED AT 07:45:53 ON 17 MAR 2009
L17          3 L16

=>
=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    23.00     549.18

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)       SINCE FILE      TOTAL
```

```
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -2.46      -6.56

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:23:22 ON 17 MAR 2009

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:22:35 ON 17 MAR 2009
FILE 'CAPLUS' ENTERED AT 10:22:35 ON 17 MAR 2009
COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                   23.00     549.18

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -2.46      -6.56

=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                   23.50     549.68

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -2.46      -6.56

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:22:54 ON 17 MAR 2009

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:24:06 ON 17 MAR 2009
FILE 'CAPLUS' ENTERED AT 10:24:06 ON 17 MAR 2009
COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                   23.50     549.68

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
```

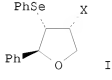
CA SUBSCRIBER PRICE -2.46 -6.56

=> d l17 3 ti fbib abs

L17 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations
AN 1995:974892 CAPLUS
DN 124:176328
OREF 124:32707a,32710a
TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations
AU Landais, Yannick; Planchenault, Denis
CS Inst. de Chimie Organique, Univ. de Lausanne, Lausanne-Dorigny, 1015, Switz.
SO Synlett (1995), (11), 1191-3
CODEN: SYNLES; ISSN: 0936-5214
PB Thieme
DT Journal
LA English
OS CASREACT 124:176328
GI



I



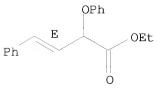
II

AB Electronically and sterically differentiated allylic substituents such as RO, NHPh, PhS, and PhSO2 groups were used to demonstrate the influence of electronic and/or steric effects in the stereocontrol of the PhSeCl-promoted electrophilic 5-endo-trig-like cyclizations of 2-substituted-3-alkenols, (E)-PhCH:CHCHXCH2OH (1, X = OH, OEt, OCH2CF3, OPh, NHPh, SPh). 1 Reacted with PhSeCl/K2CO3 to give predominantly the 2,4-trans-tetrahydrofuran I, however, the cis-2,4-diastereoisomer II was predominant for X = NHPh and SPh for reasons of electronic effects.

=> d l17 3 it

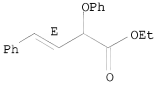
L17 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
IT Stereochemistry
Steric effect
Substituent effect
(of 5-endo-trig electrophilic cyclization reaction of 2-substituted 3-alkenols to give THF derivs.)
IT Insertion reaction
(rhodium-catalyzed insertion reactions of allylic diazoester)
IT Alcohols, preparation
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(alkenyl, preparation and 5-endo-trig electrophilic cyclization reaction of 2-substituted 3-alkenols to give THF derivs.)
IT Ring closure and formation
(endo-trig, of 2-substituted 3-alkenols to give THF derivs.)
IT 98184-95-3 173602-57-8 173602-58-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(5-endo-trig electrophilic cyclization reaction of)

```
IT   5707-04-0, Phenylselenyl chloride
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (5-endo-trig electrophilic cyclization reaction of 2-substituted
        3-alkenols promoted by)
IT   15956-28-2, Dirhodium tetraacetate
     RL: CAT (Catalyst use); USES (Uses)
        (insertion reaction of allylic diazoester catalyzed by)
IT   173602-47-6P   173602-48-7P   173602-49-8P   173602-50-1P   173602-51-2P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and 5-endo-trig electrophilic cyclization reaction of)
IT   173602-52-3P   173602-53-4P 173602-54-5P   173602-55-6P
     173602-56-7P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and lithium aluminum hydride-reduction of)
IT   166111-95-1P   166111-96-2P   173602-59-0P   173602-60-3P   173602-61-4P
     173602-62-5P   173602-63-6P   173602-64-7P   173602-65-8P   173829-17-9P
     173829-18-0P   173829-19-1P   173829-20-4P   173829-21-5P   173829-22-6P
     173829-23-7P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of)
IT   62-53-3, Aniline, reactions   64-17-5, Ethanol, reactions   75-89-8,
     2,2,2-Trifluoroethanol   108-95-2, Phenol, reactions   108-98-5,
     Thiophenol, reactions
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (rhodium-catalyzed insertion reaction into allylic diazoester)
IT   154841-78-8
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (rhodium-catalyzed insertion reactions of)


=> 173602-54-5
   REGlstRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.




L19          2 L18


=> display hitstr l19 1-2

L19  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2009 ACS on STN
IT   173602-54-5P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (stereospecific access to allylic systems using rhodium(II)-vinyl
        carbenoid insertion into Si-H, O-H, and N-H bonds)
RN   173602-54-5  CAPLUS
CN   3-Butenoic acid, 2-phenoxy-4-phenyl-, ethyl ester, (E)- (9CI)  (CA INDEX
     NAME)

Double bond geometry as shown.
```



L19 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
IT 173602-54-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and lithium aluminum hydride-reduction of)
RN 173602-54-5 CAPLUS
CN 3-Butenoic acid, 2-phenoxy-4-phenyl-, ethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	14.02	568.56

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.38

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:33:04 ON 17 MAR 2009

Connecting via Winsock to STN

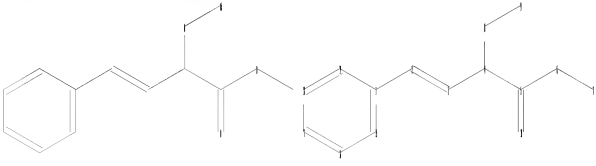
Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:12:00 ON 17 MAR 2009
FILE 'CAPLUS' ENTERED AT 11:12:00 ON 17 MAR 2009
COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

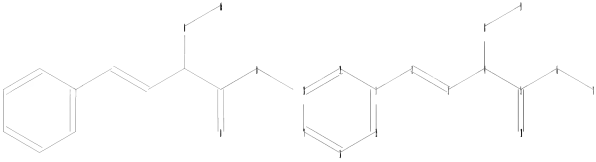
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	14.02	568.56

```
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00      -7.38

=> logoff hold
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                  14.52     569.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00      -7.38

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:12:50 ON 17 MAR 2009

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
  * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:18:03 ON 17 MAR 2009
FILE 'CAPLUS' ENTERED AT 11:18:03 ON 17 MAR 2009
COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                  14.52     569.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00      -7.38

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10566995\10566995 alkoxy .str
```

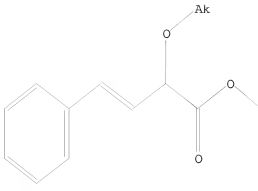


```
chain nodes :
2  3  4  5  6  7  8  9  10
ring nodes :
1  15  16  17  18  19
chain bonds :
1-2  2-3  3-4  4-5  4-8  5-6  5-10  6-7  8-9
ring bonds :
```

```
1-15  1-19  15-16  16-17  17-18  18-19
exact/norm bonds :
4-8  5-6  5-10  6-7  8-9
exact bonds :
1-2  2-3  3-4  4-5
normalized bonds :
1-15  1-19  15-16  16-17  17-18  18-19


G1:H,Cb

G2:Cb,Cy,Hy

G3:H,Ak

Hydrogen count :
2:>= minimum 1  3:>= minimum 1  4:>= minimum 1
Match level :
1:Atom  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  8:CLASS  9:CLASS
10:CLASS  15:Atom  16:Atom  17:Atom  18:Atom  19:Atom




=> file reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                  15.02     569.56

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00      -7.38

FILE 'REGISTRY' ENTERED AT 11:18:42 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   15 MAR 2009  HIGHEST RN 1121544-94-2
DICTIONARY FILE UPDATES:  15 MAR 2009  HIGHEST RN 1121544-94-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10566995\10566995 alkoxy .str
```



```
chain nodes :
2  3  4  5  6  7  8  9  10
ring nodes :
1  15  16  17  18  19
chain bonds :
1-2  2-3  3-4  4-5  4-8  5-6  5-10  6-7  8-9
ring bonds :
1-15  1-19  15-16  16-17  17-18  18-19
exact/norm bonds :
4-8  5-6  5-10  6-7  8-9
exact bonds :
1-2  2-3  3-4  4-5
normalized bonds :
1-15  1-19  15-16  16-17  17-18  18-19


G1:H,Cb

G2:Cb,Cy,Hy

G3:H,Ak

Hydrogen count :
2:>= minimum 1  3:>= minimum 1  4:>= minimum 1
Match level :
1:Atom  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  8:CLASS  9:CLASS
10:CLASS  15:Atom  16:Atom  17:Atom  18:Atom  19:Atom



L20     STRUCTURE UPLOADED

=> d l20\
L20 HAS NO ANSWERS
'L20\' IS NOT A VALID STRUCTURE FORMAT KEYWORD
ENTER STRUCTURE FORMAT (SIM), NOS:end

=> d l20
L20 HAS NO ANSWERS
L20             STR
```



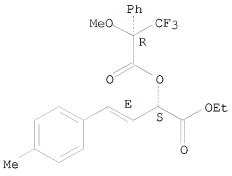
G1 H,Cb

G2 Cb,Cy,Hy

G3 H,Ak

Structure attributes must be viewed using STN Express query preparation.

```
=> search l20 sss sam
SAMPLE SEARCH INITIATED 11:20:02 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      275 TO ITERATE

100.0% PROCESSED      275 ITERATIONS                                1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         4506 TO     6494
PROJECTED ANSWERS:               1 TO       80

L21           1 SEA SSS SAM L20

=> d scan

L21  1 ANSWERS   REGISTRY  COPYRIGHT 2009 ACS on STN
IN   Benzeneacetic acid, α-methoxy-α-(trifluoromethyl)-,
     (1S,2E)-1-(ethoxycarbonyl)-3-(4-methylphenyl)-2-propen-1-yl ester,
     (αR)-
MF   C23 H23 F3 O5

Absolute stereochemistry.
Double bond geometry as shown.
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search l20 sss full
FULL SEARCH INITIATED 11:20:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5432 TO ITERATE

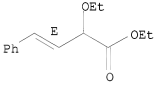
100.0% PROCESSED 5432 ITERATIONS 31 ANSWERS
SEARCH TIME: 00.00.01

L22 31 SEA SSS FUL L20

=> d scan

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-ethoxy-4-phenyl-, ethyl ester, (E)- (9CI)
MF C14 H18 O3

Double bond geometry as shown.

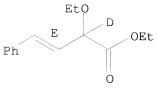


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):31

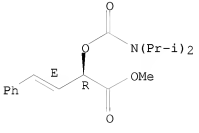
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic-2-d acid, 2-ethoxy-4-phenyl-, ethyl ester, (E)- (9CI)
MF C14 H17 D O3

Double bond geometry as shown.



L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[[[bis(1-methylethyl)amino]carbonyl]oxy]-4-phenyl-, methyl ester, (2R,3E)-
MF C18 H25 N O4

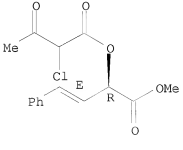
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-(2-chloro-1,3-dioxobutoxy)-4-phenyl-, methyl ester, (2R,3E)-
MF C15 H15 Cl O5

Absolute stereochemistry.
Double bond geometry as shown.

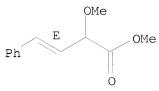


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN 3-Butenoic acid, 2-methoxy-4-phenyl-, methyl ester, (3E)-
MF C12 H14 O3

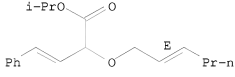
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[(2E)-2-hexen-1-yloxy]-4-phenyl-, 1-methylethyl ester
MF C19 H26 O3

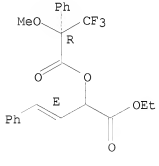
Double bond geometry as described by E or Z.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzeneacetic acid, α-methoxy-α-(trifluoromethyl)-,
(2E)-1-(ethoxycarbonyl)-3-phenyl-2-propen-1-yl ester, (αR)-
MF C22 H21 F3 O5

Absolute stereochemistry.
Double bond geometry as shown.

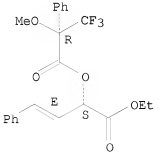


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN Benzeneacetic acid, α-methoxy-α-(trifluoromethyl)-,
    (1S,2E)-1-(ethoxycarbonyl)-3-phenyl-2-propen-1-yl ester, (αR)-
MF C22 H21 F3 O5

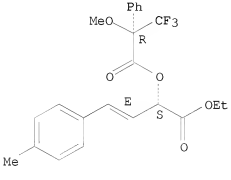
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

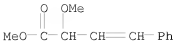
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzeneacetic acid, α-methoxy-α-(trifluoromethyl)-,
    (1S,2E)-1-(ethoxycarbonyl)-3-(4-methylphenyl)-2-propen-1-yl ester,
    (αR)-
MF C23 H23 F3 O5

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

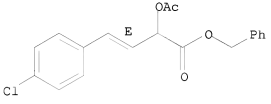
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-methoxy-4-phenyl-, methyl ester
MF C12 H14 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-(acetyloxy)-4-(4-chlorophenyl)-, phenylmethyl ester, (3E)-
MF C19 H17 Cl O4

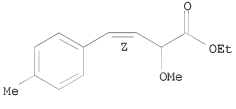
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-methoxy-4-(4-methylphenyl)-, ethyl ester, (3Z)-
MF C14 H18 O3

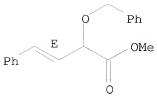
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-phenyl-2-(phenylmethoxy)-, methyl ester, (3E)-
MF C18 H18 O3

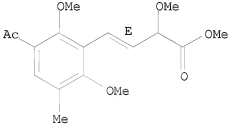
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-(3-acetyl-2,6-dimethoxy-5-methylphenyl)-2-methoxy-, methyl ester, (3E)-
MF C17 H22 O6

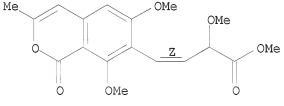
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-(6,8-dimethoxy-3-methyl-1-oxo-1H-2-benzopyran-7-yl)-2-methoxy-, methyl ester, (Z)-(-)- (8CI)
MF C18 H20 O7

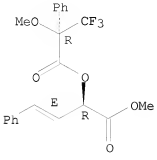
Rotation (-).
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzeneacetic acid, α-methoxy-α-(trifluoromethyl)-, 1-(methoxycarbonyl)-3-phenyl-2-propenyl ester, [R-[R*,R*-(E)]]- (9CI)
MF C21 H19 F3 O5

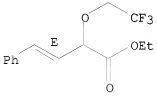
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-phenyl-2-(2,2,2-trifluoroethoxy)-, ethyl ester, (E)-
(9CI)
MF C14 H15 F3 O3

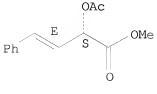
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-(acetyloxy)-4-phenyl-, methyl ester, (2S,3E)-
MF C13 H14 O4

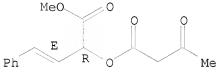
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-(1,3-dioxobutoxy)-4-phenyl-, methyl ester, (2R,3E)-
MF C15 H16 O5

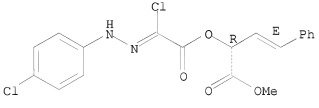
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

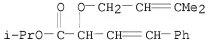
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[[2-chloro-2-[2-(4-chlorophenyl)hydrazinylidene]acetyl]oxy]-4-phenyl-, methyl ester, (2R,3E)-
MF C19 H16 Cl2 N2 O4

Absolute stereochemistry.
Double bond geometry as described by E or Z.



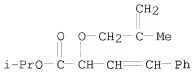
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[(3-methyl-2-buten-1-yl)oxy]-4-phenyl-, 1-methylethyl ester
MF C18 H24 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

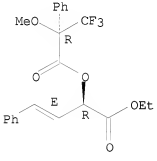
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[(2-methyl-2-propen-1-yl)oxy]-4-phenyl-, 1-methylethyl ester
MF C17 H22 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzeneacetic acid, α-methoxy-α-(trifluoromethyl)-,
(1R,2E)-1-(ethoxycarbonyl)-3-phenyl-2-propen-1-yl ester, (αR)-
MF C22 H21 F3 O5

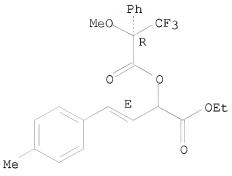
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

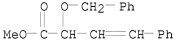
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzeneacetic acid, α-methoxy-α-(trifluoromethyl)-,
(2E)-1-(ethoxycarbonyl)-3-(4-methylphenyl)-2-propen-1-yl ester,
(αR)-
MF C23 H23 F3 O5

Absolute stereochemistry.
Double bond geometry as shown.



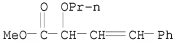
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-phenyl-2-(phenylmethoxy)-, methyl ester
MF C18 H18 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

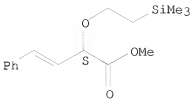
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-phenyl-2-propoxy-, methyl ester
MF C14 H18 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

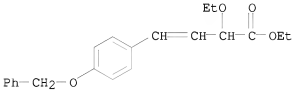
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-phenyl-2-[2-(trimethylsilyl)ethoxy]-, methyl ester, (2S)-
MF C16 H24 O3 Si

Absolute stereochemistry.
Double bond geometry unknown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

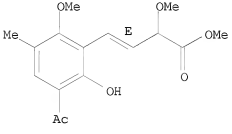
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-ethoxy-4-[4-(phenylmethoxy)phenyl]-, ethyl ester
MF C21 H24 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

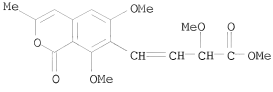
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-(3-acetyl-2-hydroxy-6-methoxy-5-methylphenyl)-2-methoxy-, methyl ester, (3E)-
MF C16 H20 O6

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

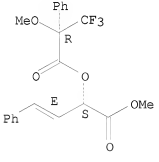
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-(6,8-dimethoxy-3-methyl-1-oxo-1H-2-benzopyran-7-yl)-2-methoxy-, methyl ester
MF C18 H20 O7



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzeneacetic acid, α-methoxy-α-(trifluoromethyl)-,
1-(methoxycarbonyl)-3-phenyl-2-propenyl ester, [S-[R*,S*-(E)]]- (9CI)
MF C21 H19 F3 O5

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> save temp l22 rawfinds/a
ANSWER SET L22 HAS BEEN SAVED AS 'RAWFINDS/A'

=> file caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	188.76	758.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.38

FILE 'CAPLUS' ENTERED AT 11:22:50 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 17 Mar 2009 VOL 150 ISS 12
FILE LAST UPDATED: 16 Mar 2009 (20090316/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l22
L23 19 L22

=> d l22 10-19 ti
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:n

=> d l23 10-19 ti

L23 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Synthesis of α-allyloxy-substituted α,β-unsaturated esters via aldol condensation. Convenient access to highly substituted allyl vinyl ethers

L23 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Regiochemistry of molybdenum-catalyzed O-H insertions of vinylcarbenoids

L23 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI The first case of asymmetric induction in intramolecular nitrile imine cycloadditions: synthesis of enantiopure 3-substituted 6-oxo-2,3,3a,5-tetrahydro-4-carbomethoxy-furo[3,4-c]pyrazoles

L23 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Enantioselective lithiation and substitution of (E)-cinnamyl N,N-diisopropylcarbamate through use of (-)-sparteine complexes

L23 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Chemoenzymic synthesis of enantiomerically pure alkene 1,2-diols and glycosides thereof

L23 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI A Stereospecific Access to Allylic Systems Using Rhodium(II)-Vinyl Carbenoid Insertion into Si-H, O-H, and N-H Bonds

L23 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations

L23 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Enantioselective reduction of β,χ-unsaturated α-keto acids

using Bacillus stearothermophilus lactate dehydrogenase: a new route to functionalized allylic alcohols

L23 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Structure of canescin-A and -B

L23 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI The structure of canescin

=> d l23 10 ti fbib abs

L23 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Synthesis of α-allyloxy-substituted α,β-unsaturated esters via aldol condensation. Convenient access to highly substituted allyl vinyl ethers
AN 2000:597718 CAPLUS
DN 133:309561
TI Synthesis of α-allyloxy-substituted α,β-unsaturated esters via aldol condensation. Convenient access to highly substituted allyl vinyl ethers
AU Hiersemann, Martin
CS Institut fur Organische Chemie der Technischen Universitat Dresden, Dresden, 01062, Germany
SO Synthesis (2000), (9), 1279-1290
CODEN: SYNTBF; ISSN: 0039-7881
PB Georg Thieme Verlag
DT Journal
LA English
OS CASREACT 133:309561
AB α-Allyloxy-substituted α,β-unsatd. esters were prepared in 5 steps from com. available starting materials. The key sequence of the synthesis is an aldol addition between an α-allyloxy-substituted ester and an aldehyde followed by mesylation and DBU mediated elimination to afford the 2-alkoxycarbonyl-substituted allyl vinyl ethers. E.g., [(2E)-2-hexenyloxy]acetic acid Me ester was reacted with acetaldehyde using LDA to give Me(CH2)2CH:CHCH2OCH[CH(OH)Me]CO2Me (I) in 84% yield. The alc. group of I was mesylated followed by elimination of the mesyloxy group with DBU in THF to give 2-[(2E)-2-hexenyloxy]-(2Z)-2-butenoic acid Me ester as the major diastereomer with 91% yield for the two steps. The E/Z ratio of the newly generated vinyl ether double bond is apparently determined by the steric bulk of the vinyl ether double bond substituent R1. Z:E ratios from 3:2-9:1 were obtained.
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l23 11-19 ti fbib abs

L23 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Regiochemistry of molybdenum-catalyzed O-H insertions of vinylcarbenoids
AN 2000:443464 CAPLUS
DN 133:176928
TI Regiochemistry of molybdenum-catalyzed O-H insertions of vinylcarbenoids
AU Davies, H. M. L.; Yokota, Y.
CS Department of Chemistry, State University of New York at Buffalo, Buffalo, NY, 14260-3000, USA
SO Tetrahedron Letters (2000), 41(25), 4851-4854
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English

AB Molybdenum-catalyzed decomposition of vinyldiazoacetates generates vinylcarbenoids that preferentially react with alcs. at the vinylogous position of the vinylcarbenoid rather than at the carbenoid site.
RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI The first case of asymmetric induction in intramolecular nitrile imine cycloadditions: synthesis of enantiopure 3-substituted 6-oxo-2,3,3a,5-tetrahydro-4-carbomethoxy-furo[3,4-c]pyrazoles
AN 1999:243929 CAPLUS
DN 131:18960
TI The first case of asymmetric induction in intramolecular nitrile imine cycloadditions: synthesis of enantiopure 3-substituted 6-oxo-2,3,3a,5-tetrahydro-4-carbomethoxy-furo[3,4-c]pyrazoles
AU Broggini, Gianluigi; Garanti, Luisa; Molteni, Giorgio; Zecchi, Gaetano
CS Dipartimento di Scienze Chimiche, Fisiche e Matematiche, Universita dell'Insubria, Como, 22100, Italy
SO Tetrahedron: Asymmetry (1999), 10(3), 487-492
CODEN: TASYE3; ISSN: 0957-4166
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 131:18960
AB Intramol. cycloaddn. of homochiral nitrile imines, generated in situ from base treatment of the corresponding hydrazonoyl chlorides, involves diastereoselective formation of the title compds. in the enantiomerically pure form. Starting materials in this synthesis were [R-(E)]-2-Hydroxy-3-pentenoic acid Me ester, [R-(E)]-2-Hydroxy-4-phenyl-3-butenoic acid Me ester and 2,2,6-Trimethyl-4H-1,3-dioxin-4-one.
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Enantioselective lithiation and substitution of (E)-cinnamyl N,N-diisopropylcarbamate through use of (-)-sparteine complexes
AN 1998:739563 CAPLUS
DN 130:81264
TI Enantioselective lithiation and substitution of (E)-cinnamyl N,N-diisopropylcarbamate through use of (-)-sparteine complexes
AU Behrens, Karin; Froehlich, Roland; Meyer, Oliver; Hoppe, Dieter
CS Organisch-Chemisches Institut, Universitaet Muenster, Muenster, D-48149, Germany
SO European Journal of Organic Chemistry (1998), (11), 2397-2403
CODEN: EJOCFK; ISSN: 1434-193X
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
OS CASREACT 130:81264
AB The title reaction leads to diastereomeric Li carbanion pairs that are configurationally unstable and equilibrate even at temps. <-50°. The initially formed (1S) epimer is rapidly converted to the thermodynamically more stable (1R) form (in PhMe solution). Carboxylation, acylation with acid chlorides, stannylation, and silylation take place at the α-position with stereoinversion (79-86% ee). Methylating agents attack the γ-position. Here, the stereochem. course depends on the leaving group, anti-SE' for the iodide (50% ee) and syn-SE' (48% ee) for the tosylate.
RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Chemoenzymic synthesis of enantiomerically pure alkene 1,2-diols and glycosides thereof
AN 1998:217991 CAPLUS
DN 128:294949
OREF 128:58463a,58466a
TI Chemoenzymic synthesis of enantiomerically pure alkene 1,2-diols and glycosides thereof
AU Ziegler, Thomas; Bien, Frank; Jurisch, Claus
CS Institute of Organic Chemistry, University of Cologne, Cologne, D-50939, Germany
SO Tetrahedron: Asymmetry (1998), 9(5), 765-780
CODEN: TASYE3; ISSN: 0957-4166
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 128:294949
AB The kinetic resolution of racemic 2-O-acylated 3-butene-1,2-diol and 1-O-acylated 3-butene-1,2-diol derivs. by enzymic saponification and enzymic esterification, resp., is investigated with several lipases and esterases. The resulting partially blocked enantiomers are glycosylated with glycosyl halides and trichloroacetimidates, resp.
RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI A Stereospecific Access to Allylic Systems Using Rhodium(II)-Vinyl Carbenoid Insertion into Si-H, O-H, and N-H Bonds
AN 1997:198048 CAPLUS
DN 126:211638
OREF 126:40925a,40926a
TI A Stereospecific Access to Allylic Systems Using Rhodium(II)-Vinyl Carbenoid Insertion into Si-H, O-H, and N-H Bonds
AU Bulugahapitiya, Priyadarshanie; Landais, Yannick; Parra-Rapado, Liliana; Planchenault, Denis; Weber, Valery
CS College Propedeutique, Universite de Lausanne, Lausanne-Dorigny, 1015, Switz.
SO Journal of Organic Chemistry (1997), 62(6), 1630-1641
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
AB Rhodium-catalyzed decomposition of α-vinyl diazo esters in the presence of silanes, alcs., ethers, amines, and thiols has been shown to produce the corresponding α-silyl, α-hydroxy, α-alkoxy, α-amino, and α-thioalkoxy esters in generally good yield with a complete retention of the stereochem. of the double bond of the diazo precursor. An extension of the process in homochiral series has also been devised using either a chiral auxiliary attached to the ester function or achiral α-vinyl diazo esters and Doyle's chiral catalyst Rh2(MEPY)4. In the former approach, pantolactone as chiral auxiliary gave diastereoselectivities of up to 70%, while the second approach produced the desired allylsilane with ee as high as 72%. On the other hand, Rh2(MEPY)4-catalyzed insertion into the O-H bond of water led to poor or no enantioselectivity in good agreement with recent literature reports.
RE.CNT 119 THERE ARE 119 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations
AN 1995:974892 CAPLUS

DN 124:176328
OREF 124:32707a,32710a
TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations
AU Landais, Yannick; Planchenault, Denis
CS Inst. de Chimie Organique, Univ. de Lausanne, Lausanne-Dorigny, 1015, Switz.
SO Synlett (1995), (11), 1191-3
CODEN: SYNLES; ISSN: 0936-5214
PB Thieme
DT Journal
LA English
OS CASREACT 124:176328
GI

I

II

AB Electronically and sterically differentiated allylic substituents such as RO, NHPh, PhS, and PhSO2 groups were used to demonstrate the influence of electronic and/or steric effects in the stereocontrol of the PhSeCl-promoted electrophilic 5-endo-trig-like cyclizations of 2-substituted-3-alkenols, (E)-PhCH:CHCHXCH2OH (1, X = OH, OEt, OCH2CF3, OPh, NHPh, SPh). 1 Reacted with PhSeCl/K2CO3 to give predominantly the 2,4-trans-tetrahydrofuran I, however, the cis-2,4-diastereoisomer II was predominant for X = NHPh and SPh for reasons of electronic effects.

L23 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Enantioselective reduction of β,χ-unsaturated α-keto acids using Bacillus stearothermophilus lactate dehydrogenase: a new route to functionalized allylic alcohols
AN 1992:193680 CAPLUS
DN 116:193680
OREF 116:32805a,32808a
TI Enantioselective reduction of β,χ-unsaturated α-keto acids using Bacillus stearothermophilus lactate dehydrogenase: a new route to functionalized allylic alcohols
AU Casy, Guy; Lee, Thomas V.; Lovell, Helen
CS Sch. Chem., Univ. Bristol, Bristol, BS8 1TS, UK
SO Tetrahedron Letters (1992), 33(6), 817-20
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English
OS CASREACT 116:193680
AB The enantioselective reduction of α-keto acids, catalyzed by lactate dehydrogenase, was extended to β,χ-unsatd. substrates, providing functionalized allylic alcs. in high optical purity. The stereoselective reduction of potassium 2-oxo-4-phenyl-3-butenoate catalyzed by Bacillus stearothermophilus lactate dehydrogenase gave (S)-2-hydroxy-4-phenyl-3-butenoic acid in 85% yield and in 98% enantiomeric excess.

L23 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Structure of canescin-A and -B
AN 1969:501648 CAPLUS
DN 71:101648

OREF 71:18925a,18928a
TI Structure of canescin-A and -B
AU Birch, Arthur J.; Birkinshaw, J. H.; Chaplen, P.; Mo, Lucy; Manchanda, A. H.; Pelter, Andrew; Riano-Martin, M.
CS Aust. Nat. Univ., Canberra, Australia
SO Australian Journal of Chemistry (1969), 22(9), 1933-41
CODEN: AJCHAS; ISSN: 0004-9425
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB Canescin from aspergillus malignus consists of a mixture of the stereoisomers (I) (canescin-A) and (II) (canescin-B). The structure is established by reactions and by spectra.

L23 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI The structure of canescin
AN 1965:51507 CAPLUS
DN 62:51507
OREF 62:9096e-g
TI The structure of canescin
AU Birch, A. J.; Loh, Lucy; Pelter, A.; Birkinshaw, J. H.; Chaplen, P.; Manchanda, A. H.; Riano-Martin, M.
CS Univ. Manchester, UK
SO Tetrahedron Letters (1965), (1), 29-32
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB Canescin (I), C15H14O7, m. 200-2°, [α] 23D 17.8°, contains 1 OMe, 1 CMe, and 1γ-lactone group. CH2N2 in Et2O gave a mono-Me deriv; in MeOH a di-Me derivative I and the mono-Me derivative with MeI and K2CO3 in Me2CO gave a tri-Me derivative (II), C18H20O7, m. 123-4°, [α]D -113° missing the lactone group and 2 H atoms. The elimination involved the lactone group. II was oxidized with KMnO4 to 4,6-dimethoxy-1,2,5-benzenetricarboxylic acid (III). Pyrolysis of I under N afforded pyrocanescin (IV), C13H10O4, m. 143-4°, [α]D 0°. Methylation of IV gave a mono-Me derivative (V) in which the lactone group disappeared. Alkaline hydrolysis of V gave an oxo ester, C15H16O5, containing a carboxyl group and an unconjugated carbonyl group. These data together with ir and N.M.R. spectra indicated IV to have the structure given. Consideration of uv data indicated that II had the structure shown; ozonolysis and KMnO4 oxidation of the dihydro compound gave succinic acid and the mono-Me ester of 2-methoxyglutaric acid, thus reinforcing the given structure for II. These data, together with N.M.R. spectra, assigned the structure shown to I. Many of the conclusions were based on ir spectra.

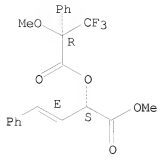
=>
=> d l23 17 it

L23 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
IT Stereochemistry
(of reduction of β,γ-unsatd. α-keto acids by Bacillus stearothermophilus lactate dehydrogenase)
IT Regiochemistry
(of reduction of β,γ-unsatd. α-oxo acids by Bacillus stearothermophilus lactate dehydrogenase)
IT Alcohols, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(allyl, chiral, preparation of, by stereoselective reduction of oxoalkanoate by

Bacillus stearothermophilus lactate dehydrogenase)
IT Reduction
(enzymic, stereoselective, of α-keto acids by Bacillus stearothermophilus lactate dehydrogenase)
IT Kinetics of reduction
(enzymic, stereoselective, of α-keto acids, by Bacillus stearothermophilus lactate dehydrogenase)
IT Carboxylic acids, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(α,β-unsatd., oxo, stereoselective reduction of, by Bacillus stearothermophilus lactate dehydrogenase)
IT Carboxylic acids, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(β,γ-unsatd., hydroxy, chiral, preparation of, by stereoselective reduction of oxo carboxylic acids by Bacillus stearothermophilus lactate dehydrogenase)
IT 9001-60-9, Lactate dehydrogenase
RL: RCT (Reactant); RACT (Reactant or reagent)
(catalyst for stereoselective, regioselective reduction of β,γ-unsatd. α-oxo acids)
IT 50331-71-0
RL: PROC (Process)
(conversion of, to sodium salt)
IT 37934-24-0P, Sodium 3-methyl-2-oxo-3-butenoate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and stereoselective reduction of, acillus stearothermophilus lactate dehydrogenase)
IT 96930-63-1P 140653-90-3P 140653-91-4P 140653-92-5P
140653-93-6P 140653-95-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
IT 140653-94-7P, (S)-2-Hydroxy-3-methyl-3-butenoic acid 140696-22-6P
140696-23-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by stereoselective reduction of oxoalkanoate by Bacillus stearothermophilus lactate dehydrogenase)
IT 140653-88-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective reduction by Bacillus stearothermophilus lactate dehydrogenase)
IT 1914-59-6, (E)-2-Oxo-4-phenyl-3-butenoic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective reduction of, by Bacillus stearothermophilus lactate dehydrogenase)
IT 759-05-7, 3-Methyl-2-oxobutanoic acid 1821-02-9, 2-Oxopentanoic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective reduction of, by Bacillus stearothermophilus lactate dehydrogenase, enzyme binding in)
IT 68982-84-3, (E)-2-Oxo-3-pentenoic acid 140653-87-8,
3-Methyl-2-oxo-3-butenoic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective reduction of, by Bacillus stearothermophilus lactate dehydrogenase, kinetics of)
IT 140653-89-0, Potassium (E)-2-oxo-4-phenyl-3-butenoate
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective reduction of, Bacillus stearothermophilus lactate dehydrogenase)

=> FIL REGISTRY

```
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        62.18     820.50

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                        -8.20     -15.58

FILE 'REGISTRY' ENTERED AT 11:56:40 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   15 MAR 2009  HIGHEST RN 1121544-94-2
DICTIONARY FILE UPDATES:  15 MAR 2009  HIGHEST RN 1121544-94-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> S 140653-92-5/RN

L24           1 140653-92-5/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L24 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.85 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L24  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2009 ACS on STN
RN   140653-92-5  REGISTRY
CN   Benzeneacetic acid, α-methoxy-α-(trifluoromethyl)-,
     1-(methoxycarbonyl)-3-phenyl-2-propenyl ester, [S-[R*,S*-(E)]]- (9CI)  (CA
     INDEX NAME)
FS   STEREOSEARCH
MF   C21 H19 F3 O5
SR   CA
LC   STN Files:   CA, CAPLUS
DT.CA  CAplus document type:  Journal
RL.NP  Roles from non-patents:  PREP (Preparation)

Absolute stereochemistry.
Double bond geometry as shown.
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.01	823.51
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-15.58

FILE 'REGISTRY' ENTERED AT 11:58:07 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2
DICTIONARY FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

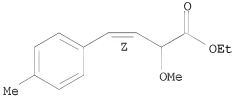
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

```
=> e 3-Butenoic acid, 2-methoxy-4-(4-methylphenyl)-, ethyl ester, /cn
E1            1      3-BUTENOIC ACID, 2-METHOXY-3-METHYL-2-(((2-(PHENYLMETHYL)-4-
                     THIAZOLYL)CARBONYL)AMINO)-, METHYL ESTER/CN
E2            1      3-BUTENOIC ACID, 2-METHOXY-4,4-DIPHENYL-, METHYL ESTER/CN
E3            0 --> 3-BUTENOIC ACID, 2-METHOXY-4-(4-METHYLPHENYL)-, ETHYL ESTER,
                     /CN
E4            1      3-BUTENOIC ACID, 2-METHOXY-4-(4-METHYLPHENYL)-, ETHYL ESTER,
                       (3Z)-/CN
E5            1      3-BUTENOIC ACID, 2-METHOXY-4-(TRIMETHYLSILYL)-3-((TRIMETHYLS
                     ILYL)OXY)-, TRIMETHYLSILYL ESTER, (E)-/CN
E6            1      3-BUTENOIC ACID, 2-METHOXY-4-PHENYL-/CN
E7            1      3-BUTENOIC ACID, 2-METHOXY-4-PHENYL-, (3E)-/CN
E8            1      3-BUTENOIC ACID, 2-METHOXY-4-PHENYL-, (3S)-TETRAHYDRO-4,4-DI
                     METHYL-2-OXO-3-FURANYL ESTER, (2R,3E)-/CN
E9            1      3-BUTENOIC ACID, 2-METHOXY-4-PHENYL-, METHYL ESTER/CN
E10           1      3-BUTENOIC ACID, 2-METHOXY-4-PHENYL-, METHYL ESTER, (3E)-/CN
E11           1      3-BUTENOIC ACID, 2-METHOXY-4-PHENYL-, TETRAHYDRO-4,4-DIMETHY
                     L-2-OXO-3-FURANYL ESTER, (R-(R*,S*-(E)))-/CN
E12           1      3-BUTENOIC ACID, 2-METHOXYETHYL ESTER/CN

=> e4
L25           1 "3-BUTENOIC ACID, 2-METHOXY-4-(4-METHYLPHENYL)-, ETHYL ESTER,
                  (3Z)-"/CN

=> d l25

L25  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2009 ACS on STN
RN   890655-40-0  REGISTRY
ED   Entered STN:  05 Jul 2006
CN   3-Butenoic acid, 2-methoxy-4-(4-methylphenyl)-, ethyl ester, (3Z)-
     (CA INDEX NAME)
FS   STEREOSEARCH
MF   C14 H18 O3
SR   CA
LC   STN Files:   CA, CAPLUS, CASREACT

Double bond geometry as shown.
```




```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              1 REFERENCES IN FILE CA (1907 TO DATE)
              1 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     8.36     831.87

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00     -15.58
```

FILE 'CAPLUS' ENTERED AT 11:59:22 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 17 Mar 2009 VOL 150 ISS 12
FILE LAST UPDATED: 16 Mar 2009 (20090316/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> 125
L26 1 L25

=> d 126

L26 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:373195 CAPLUS
DN 145:62810
TI Expeditious syntheses of conjugated allenyl esters and oxazoles through a cascade reaction of α-alkynyl malonates under alkaline conditions
AU Sano, Shigeki; Shimizu, Hisashi; Kim, Kweon; Lee, Woo Song; Shiro, Motoo; Nagao, Yoshimitsu
CS Graduate School of Pharmaceutical Sciences, The University of Tokushima, Sho-machi, Tokushima, 770-8505, Japan
SO Chemical & Pharmaceutical Bulletin (2006), 54(2), 196-203
CODEN: CPBTAL; ISSN: 0009-2363
PB Pharmaceutical Society of Japan
DT Journal
LA English
OS CASREACT 145:62810
RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.25	834.12
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-15.58

```
FILE 'REGISTRY' ENTERED AT 12:00:27 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   15 MAR 2009  HIGHEST RN 1121544-94-2
DICTIONARY FILE UPDATES:  15 MAR 2009  HIGHEST RN 1121544-94-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> e9
L27           1 "3-BUTENOIC ACID, 2-METHOXY-4-PHENYL-, METHYL ESTER"/CN

=> d l27

L27  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2009 ACS on STN
RN   841202-02-6  REGISTRY
ED   Entered STN:  03 Mar 2005
CN   3-Butenoic acid, 2-methoxy-4-phenyl-, methyl ester  (CA INDEX
     NAME)
OTHER NAMES:
CN   Methyl 2-methoxy-4-phenylbut-3-enoate
MF   C12 H14 O3
SR   CA
LC   STN Files:   CA, CAPLUS, CASREACT, USPATFULL


     O  OMe
     ||  |
MeO-C-CH-CH=CH-Ph


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> file caplus
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 7.88     842.00

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                   ENTRY    SESSION
```

CA SUBSCRIBER PRICE 0.00 -15.58

FILE 'CAPLUS' ENTERED AT 12:01:10 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 17 Mar 2009 VOL 150 ISS 12
FILE LAST UPDATED: 16 Mar 2009 (20090316/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l27
L28 1 L27

=> d l28

L28 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:119915 CAPLUS
DN 142:219047
TI Preparation of 4-phenyl-but-3-enoic acid derivatives, as peroxisome proliferator-activated receptors (PPAR) ligands, in particular PPARα and PPARγ agonists, for the treatment and prevention of diabetes, dyslipidemia, atherosclerosis
IN Zeiller, Jean Jacques; Dumas, Herve; Guyard Dangremont, Valerie; Berard, Isabelle; Contard, Francis; Guerrier, Daniel; Ferrand, Gerard; Bonhomme, Yves
PA Merck Sante, Fr.
SO Fr. Demande, 38 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2858615	A1	20050211	FR 2003-9610	20030804
	FR 2858615	B1	20061222		
	AU 2004263254	A1	20050217	AU 2004-263254	20040714
	CA 2534493	A1	20050217	CA 2004-2534493	20040714
	WO 2005014521	A1	20050217	WO 2004-EP7776	20040714
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				

```
            LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
            NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
            TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
            AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
            EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
            SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
            SN, TD, TG
     EP 1658260          A1    20060524    EP 2004-740992          20040714
        R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
     JP 2007501190          T     20070125    JP 2006-522255          20040714
     US 20060178434         A1    20060810    US 2006-566995          20060202
PRAI FR 2003-9610           A     20030804
     WO 2004-EP7776         W     20040714
OS   CASREACT 142:219047; MARPAT 142:219047
RE.CNT  12    THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     2.75     844.75

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00     -15.58

FILE 'REGISTRY' ENTERED AT 12:03:09 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   15 MAR 2009  HIGHEST RN 1121544-94-2
DICTIONARY FILE UPDATES:  15 MAR 2009  HIGHEST RN 1121544-94-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> e10
L29           1 "3-BUTENOIC ACID, 2-METHOXY-4-PHENYL-, METHYL ESTER, (3E)-"/CN

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     5.83     850.58
```

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION
CA SUBSCRIBER PRICE 0.00 -15.58

FILE 'CAPLUS' ENTERED AT 12:03:36 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 17 Mar 2009 VOL 150 ISS 12
FILE LAST UPDATED: 16 Mar 2009 (20090316/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l29
L30 3 L29

=> d l30 1-3 ti fbib abs

L30 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
TI Influence of electron-deficient ruthenium(I) carbonyl carboxylates on the vinylogous reactivity of metal carbenoids
AN 2008:365067 CAPLUS
DN 148:508880
TI Influence of electron-deficient ruthenium(I) carbonyl carboxylates on the vinylogous reactivity of metal carbenoids
AU Sevryugina, Yulia; Weaver, Beth; Hansen, Jorn; Thompson, Janelle; Davies, Huw M. L.; Petrukhina, Marina A.
CS Department of Chemistry, University at Albany, State University of New York, Albany, NY, 12222, USA
SO Organometallics (2008), 27(8), 1750-1757
CODEN: ORGND7; ISSN: 0276-7333
PB American Chemical Society
DT Journal
LA English
AB Highly electrophilic ruthenium(I) dimeric mixed carbonyl-fluorocarboxylate complexes were prepared by reaction of Ru3(CO)12 with fluorinated carboxylic acids; the complexes exhibit catalytic activity in the cyclopropanation of styrene with Me phenyldiazoacetate. Reaction of RFCO2H with Ru3(CO)12 gave the diruthenium(I) complexes [Ru2(CO)5(μ-O2CRF)2] [1-6; RF = CF3, 2,4-(CF3)2C6H3, 3,5-(CF3)2C6H3, 2,3,4-F3C6H2, 2,4,6-F3C6H2, C6F5]; polymeric complexes [Ru2(CO)4(μ-O2CRF)2] [7, 8; RF = CF3, 3,5-(CF3)2C6H3] were also prepared Crystal structures for 4-6, 8 and for

ligand-terminated analogs [Ru(CO)3(μ-O2CRF)2Ru(CO)2(2,3-η-MeC6H5)] (9) and [(H2O)Ru(CO)2(μ-O2CF3)2Ru(CO)2(H2O)] (10) are reported. A particular advantage of these catalysts is their propensity to enhance vinylogous reactivity in the reactions of vinyldiazoacetates. The catalytic study was conducted on four known and four new ruthenium(I) mixed carbonyl carboxylate complexes 1-8. All complexes were prepared by a combination of solvent-free techniques: melt reactions of ruthenium carbonyl with a benzoic acid followed by gas-phase sublimation-deposition of the products under reduced pressure. X-ray crystallog. characterization revealed a tetranuclear "dimer of dimers" type of structure for the complexes 4-6 and a polymeric chain for 8. Both motifs are built on diruthenium(I,I) units linked in the solid state by axial Ru···O interactions. The solution behavior of the polynuclear ruthenium(I) complexes in solvents of varying coordination ability was investigated to show a breakage of weak Ru···O contacts, resulting in the formation of one- and two-end open dimetal units.

RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
TI Chiral catalyst enhancement of diastereocontrol for O-H insertion reactions of styryl- and phenyldiazoacetate esters of pantolactone
AN 2002:586128 CAPLUS
DN 138:89461
TI Chiral catalyst enhancement of diastereocontrol for O-H insertion reactions of styryl- and phenyldiazoacetate esters of pantolactone
AU Doyle, Michael P.; Yan, Ming
CS Department of Chemistry, University of Arizona, Tucson, AZ, 85721-0041, USA
SO Tetrahedron Letters (2002), 43(34), 5929-5931
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 138:89461
AB The chiral dirhodium(II) catalyst Rh2(MEAZ)4 (Me 4-oxo-2-azetidinecarboxylate) increases diastereocontrol for intermol. O-H insertion reactions of diazo esters having a chiral auxiliary over that achieved with Rh2(OAc)4.

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
TI Regiochemistry of molybdenum-catalyzed O-H insertions of vinylcarbenoids
AN 2000:443464 CAPLUS
DN 133:176928
TI Regiochemistry of molybdenum-catalyzed O-H insertions of vinylcarbenoids
AU Davies, H. M. L.; Yokota, Y.
CS Department of Chemistry, State University of New York at Buffalo, Buffalo, NY, 14260-3000, USA
SO Tetrahedron Letters (2000), 41(25), 4851-4854
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
AB Molybdenum-catalyzed decomposition of vinyldiazoacetates generates vinylcarbenoids that preferentially react with alcs. at the vinylogous position of the vinylcarbenoid rather than at the carbenoid site.

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
=> logoff hold
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                              11.50     862.08

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                 ENTRY    SESSION
CA SUBSCRIBER PRICE                              -2.46     -18.04

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:06:52 ON 17 MAR 2009
```